

REMARKS

In the final Office Action dated March 21, 2007, in which the Examiner finally rejects all pending claims. Claims 1-19 are currently pending and, for reasons stated below, the claims are allowable in view of the prior art of record.

Claim Amendments

On page 3 of the Final Office Action dated March 21, 2007, the Examiner interprets the prior art as teaching the **creation** of a multidimensional database, wherein claim 1 is directed towards, *inter alia*, **adding** incoming data to a collection of one or more data items. To advance the prosecution of the present application, independent claim 1 is amended to more succinctly recite adding the incoming data item to a “preexisting collection” of one or more data items. This element is described at, among other locations, page 3, lines 4-6 in the specification as originally filed. Therefore, Applicants respectfully request entrance and examination of amended claims 1, 10 and 19. Applicants also amended claims 2-6 and claims 11-16 to properly reflect the above noted amendments of claims 1 and 10, respectively.

Additionally, independent claim 1 is amended to recite the incoming data item may be an anomalous data item that is misclassified. As the limitation of “misclassification” was previously recited in the preamble of claim 1, this amendment does not add any new matter. Therefore, Applicants request entrance and examination of claims 1, 10 and 19.

Claim Objection

The Examiner has objected to the specification as failing to provide proper antecedent basis for the claimed subject matter of “computer readable media.” Contrary to the Examiner’s assertion, page 4, lines 4-7 of the specification clearly provides proper antecedent

basis for the phrase “computer readable media.” Applicants respectfully submit that the objection is improper and request reconsideration as to claims 10-18.

Rejection of claims 1-19 under 35 U.S.C. § 103(a)

Claims 1-19 stand finally rejected under 35 U.S.C. § 103(a) as being unpatentable over the combination of U.S. Patent No. 6,094,651 (“Agrawal”) in view of U.S. Patent No. 6,567,796 (“Yost”).

Rejection of claims 1, 10 and 19

As amended, claim 1 is directed towards a method for “indicating potential misclassification, consequent to the application of at least one first rule, of an incoming data item used by one or more application programs” that includes, *inter alia*, “applying at least one first rule to the incoming data item and adding the incoming data item to a preexisting collection of one or more data items if the incoming data item follows the first rule” and “the incoming data item is an anomalous data item that is misclassified and has not properly been added to the preexisting collection despite satisfying the at least one first rule.” Independent claims 10 and 19 are amended to recite substantially similar variants thereof.

Agrawal teaches methods and systems for data exploitation of On-Line Analytical Processing (“OLAP”) of a multidimensional database (“MDDB”), where a search is conducted for anomalies of pre-mined paths that are based on exceptions found at various levels of data aggregation. Col. 2, lines 20-24. Specifically, Agrawal teaches **creating an MDDB** from a collection of data by selecting a number of attributes associated with the data. Col. 1, lines 38-39. The selected attributes associated with the data are chosen to be metrics of interest, wherein the remaining attributes are referred to as dimensions. The dimensions have associated hierarchies that are arranged in aggregation levels providing different levels of granularity for

viewing the data. Col. 1, lines 41-45. Additionally, Agrawal teaches locating data anomalies in the dimensional data of the created MDDB by identifying a surprise value. Col. 2, lines 38-43.

Yost teaches methods and systems for managing automatic broadcast of information derived from on-line analytical processing system reports to subscriber devices. Col. 1, lines 23-28. The automatic broadcast of information discussed by Yost includes a personalization module that enables a user to specify the content for a service in which they are interested in receiving. Col. 8, lines 21-29. Additionally, Yost teaches the personalization module enables a user to input personalize choices through a subscription interface module by selecting filters available in the service. Col. 8, lines 20-32.

Adding incoming data to a preexisting collection

Specifically, on page 3 of the Final Office Action, the Examiner explicitly indicates that Agrawal teaches the **creation** of an MDDB from a collection of data. More specifically, Agrawal teaches the collection of data is used to create an MDDB by selecting a number of attributes associated with the data to populate the MDDB to create metrics, dimensions and hierarchies to provide different levels of granularity for viewing the data. Col. 1, lines 37-45. In contrast to claim 1, Agrawal does not teach or suggest **adding** incoming data and a **preexisting collection** of one or more data items. Instead, Agrawal teaches the creation of an MDDB by a stream and/or collection of data that populates the entire MDDB at one time for future data manipulation. Thus, Agrawal fails to teach or suggest the element of “adding the incoming data item to a preexisting collection of one or more data items if the incoming data item follows the first rule.”

Yost fails to cure the shortcomings of Agrawal as Yost also fails to teach or suggest adding incoming data to a preexisting collection of one or more data items if the

incoming data item follow the first rule. At best, Yost teaches a personalization module that enables a user to input personalized choices through a subscription interface module by selecting filters available in the service. Thus Yost is silent with regards to “adding the incoming data item” and “a preexisting collection of one or more data items”.

Therefore, the combination of Agrawal and Yost fails to teach or suggest “applying at least one first rule to the incoming data item and adding the incoming data item to a preexisting collection of one or more data items if the incoming data item follows the first rule” as recited in claims 1, 10 and 19.

Incoming data item is an anomalous data item that is misclassified

With respect to the response dated November 30, 2006, Applicants re-assert that Agrawal does not disclose identifying misclassified data. Instead, Agrawal teaches methods and systems for identifying exceptional data. Agrawal provides an example of analyzing monthly sales as a percentage difference from previous months, wherein the exceptional sale of 42% for the month of October for “Birch-Beer” is defined as the exceptional data. Col. 4, lines 41-43; Col. 5, lines 28-30. Therefore, Agrawal’s discovery of exceptional data in an MDDb does not teach or suggest misclassification as recited in claims 1, 10 and 19. Thus, Agrawal is silent with regards to identifying incoming data items is an anomalous data item that is **misclassified** and has not properly been added to the preexisting collection

Yost fails to cure the shortcomings of Agrawal as Yost is silent with regards to identifying anomalous data item of incoming data item that is misclassified and has not properly been added to the preexisting collection.

Thus, neither Agrawal nor Yost, either alone or in combination, teach or suggest each element of independent claims 1, 10 and 19. Applicants assert that amended claims 1, 10

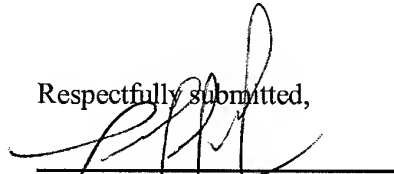
and 19 are allowable and respectfully request allowance regarding the same. Because claims 2-9 depend from independent claim 1, claims 11-18 depend from independent claim 10 (and therefore include all of the elements of claims 1 and 10, respectively). It is respectfully submitted that these claims are also allowable for at least the same reasons.

For at least all of the above reasons, Applicants respectfully request that the Examiner withdraw all rejections, and allowance of all the pending claims is respectfully solicited. To expedite prosecution of this application to allowance, the examiner is invited to call the applicants' undersigned representative to discuss any issues relating to this application.

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Respectfully submitted,



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